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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Method and technical application for the protection of crops to

control attacks of fungus, yeast, bacteria, virus and insects, the method comprising:

a first step of wetting plants with an inorganic wetting agent by means of dipole-

electrical air jet spray-technology, ozonated water, anorganic wetting agent; and first irradiating

said plants with UV-C light;

a second step of spraying said plants with ozonated water by means of said dipole-

electrical air jet spray-technology; and second irradiating said plants with UV-C light

irradiation.

2. (Currently Amended) Spray-method for the protection of crops according to claim 1

characterized in that the technical application consists of wherein said dipole-electrical air jet

spray-technology includes two spray-systems first spray device and a second spray device.

3-4. (Cancelled)

5. (Currently Amended) Spray-method for the protection of crops according to any one of

the claims 1, 2 and 3, characterized in that claim 2, wherein all parts of the said plants are pre-

wetted with negatively charged water and a-said inorganic wetting agent by a-said first spray-

device.

6. (Currently Amended) Spray-method for the protection of crops according to one of the

claims 1, 2 and 4,

characterized in that one of claims 2 or 5, wherein all parts of the said plants are sprayed with

<u>said</u> dipole- ozonated water by <u>a-said</u> second spray-device.

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7. (Currently Amended) Spray-method for the protection of crops, according to one of the

claims 1 to 4 characterized in that claim 1, wherein the moistening water with said inorganic

wetting agent from a first tank 1-and the-said dipole-ozonated ozone containing water from a

second tank 2-are whirl-sprayed on the said plants by air jet whirl-stream out of special air-

nozzles, created by an air-turbine or air-blower or air-compressor.

8-9. (Cancelled)

10. (Currently Amended) Biocidal application of the method for the protection of crops

according to one of the claims 1 to 9claim 1 for their protection and for the destruction of

fungus, yeast, bacteria, virus, spores, insects and other pests and their eggs on crops-with the aid

of ozonated water and UV-C irradiation and under the influence and the support of air-whirl-

stream, electrical charged water and an inorganic moistening agent.

11. (New) Apparatus for the protection of crops to control attacks of fungus, yeast, bacteria,

virus and insects, wherein the apparatus is operable with dipole electrical spray technology and

comprises:

UV-C lamps for irradiating plants with UV-C light;

first air-jet whirl stream nozzles for the wetting the plants with an inorganic wetting agent

by spraying said agent with dipole electrical air-jet spray technology; and

second air-jet whirl stream nozzles for spraying the plants with ozonated water with said

dipole electrical air-jet spray technology.

12. (New) Apparatus according to claim 11, wherein said first air-jet whirl stream nozzles are

included in a first spray device; and said second air-jet whirl stream nozzles are included in a

second spray device.

13. (New) Apparatus according to claim 12, wherein said first spray device is configured for

pre-moistening of plants with negatively charged water with said wetting agent; and

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wherein said first spray device includes:

a 3-point mounted chassis with frame and tank holding device;

an insulated water tank;

an electrical transformer;

an anode disposed in said water tank with a connection cable and security;

at least two lateral telescopic spray booms, each boom having special air and water nozzles including pipings;

at least two UV-C lamps with electrical conducts;

a water pressure-pump with pressure valves and manometers, controls and handles, said water pressure-pump being connected via pipes with said water-tank and said spray-booms;

an air-blower or air-compressor with controls, said air-blower or air-compressor being connected via pipes with the air-nozzles on the spray-booms for whirling of the spray-fog;

a PTO driving-shaft or electrical drive; reverse pressure- and drainage-valves with handles; and an adjustable spray-boom cover.

14. (New) Apparatus according to claim 12, wherein the second spray device is configured for the spraying of ozonated water; and

wherein said second spray device includes:

a 3-point mounted chassis with frame and tank holding device or a pulled trailer-chassis; an insulated water tank;

lateral telescopic spray-booms with special air- and water-nozzles including pipings or water-spray turbine;

UV-C lamps being equipped with electrical conducts;

a water pressure pump, said water pressure pump including pressure valves, manometers, controls, and handles, said water pressure pump being connected via pipes to said water-tank and said spray-booms;

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an air-blower or an air-compressor with controls, said air-blower or air-compressor being connected via pipes to the air-nozzles on the spray-booms, for whirling of the spray-fog;

a PTO driving-shaft or an electrical drive;

reverse pressure- and drainage-valves with handle;

an adjustable spray-boom cover;

an electrical generator with control board;

an ozonated water-pump;

an air-separator for oxygen-production;

an ozone generator with cathodic discharge;

a venturi valve;

a turbine-mixer for ozone;

an ozone gas adjuster;

an ozone-concentration measurement device.

15. (New) Apparatus according to one of the claims 12 to 14, wherein said UV-C lamps are

full length UV-C lamps attached under said spray-booms; and

where said UV-C lamps are configured to create, in addition to the electro-magnetic

direct irradiation, highly reactive oxidative hydroxy radicals in the spray fog, said radicals

having an efficient biocidal effect and reinforcing with the hurdle-principle the biocidal impact

of the ozone treatment.

16. (New) Apparatus according to one of the claims 13 or 14, wherein each spray boom

includes an adjustable spray-boom cover, said cover being configures such that direction and

effect of spray application and UV-C light irradiation can be adapted, by controlling the cover's

angle of inclination, according to a particular situation or setting.